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Sci - Agri, Chem
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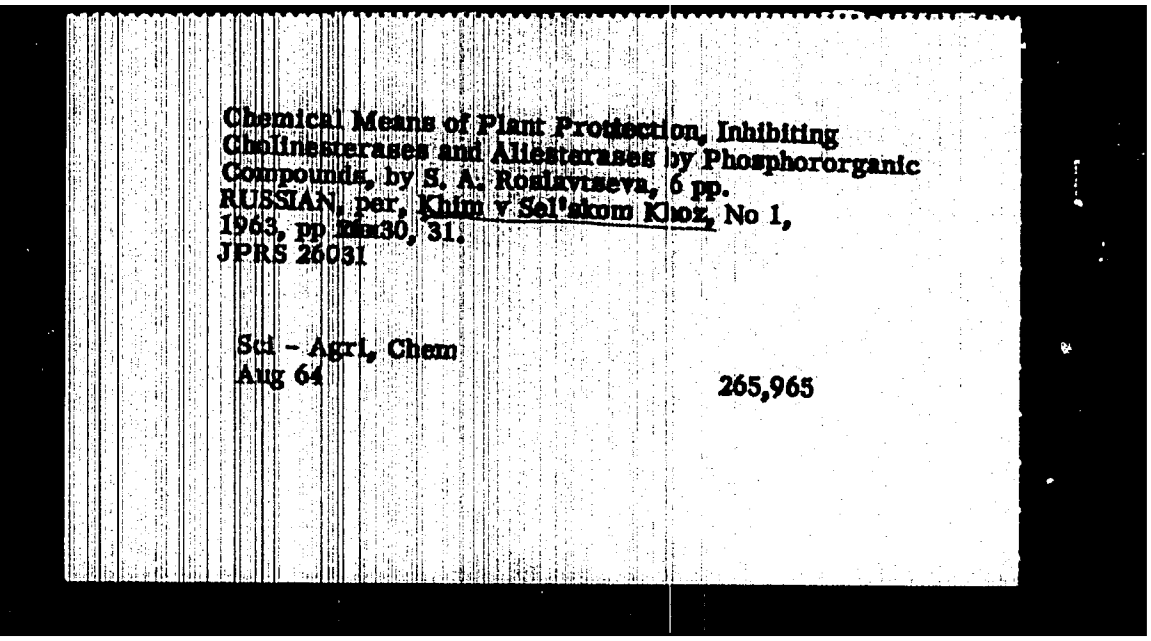

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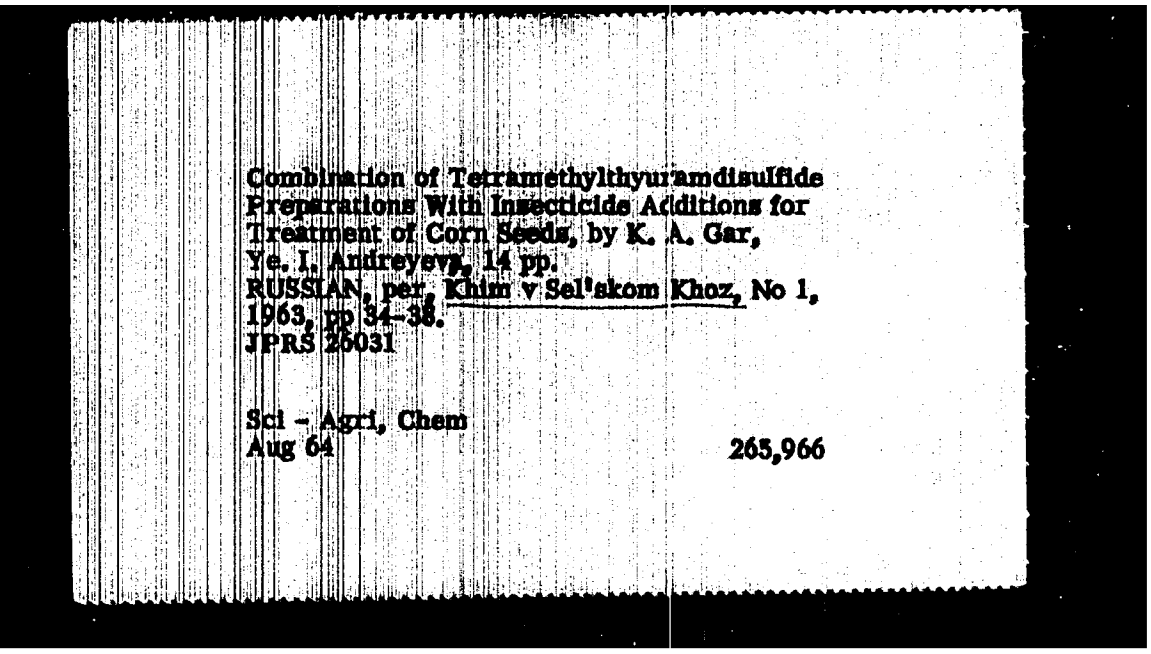

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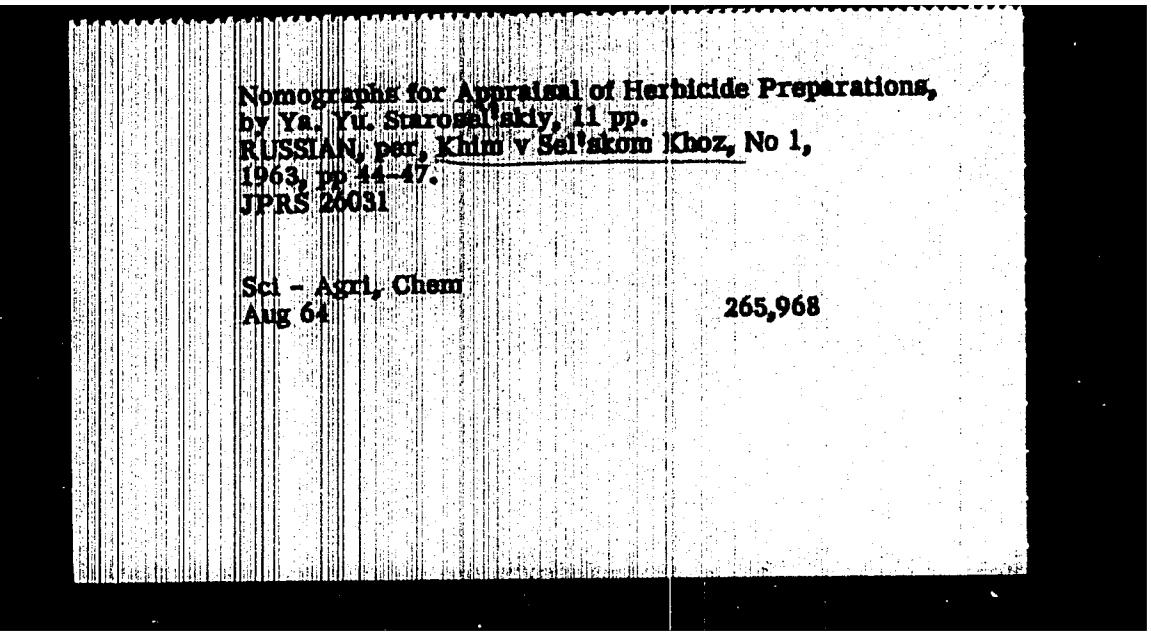

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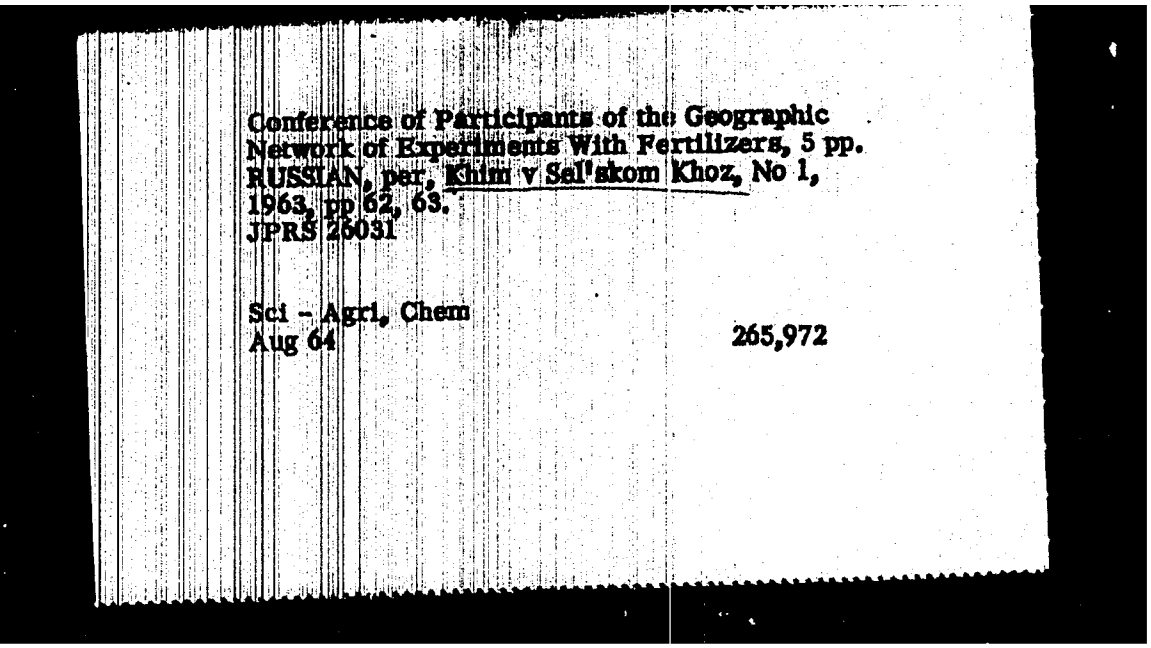

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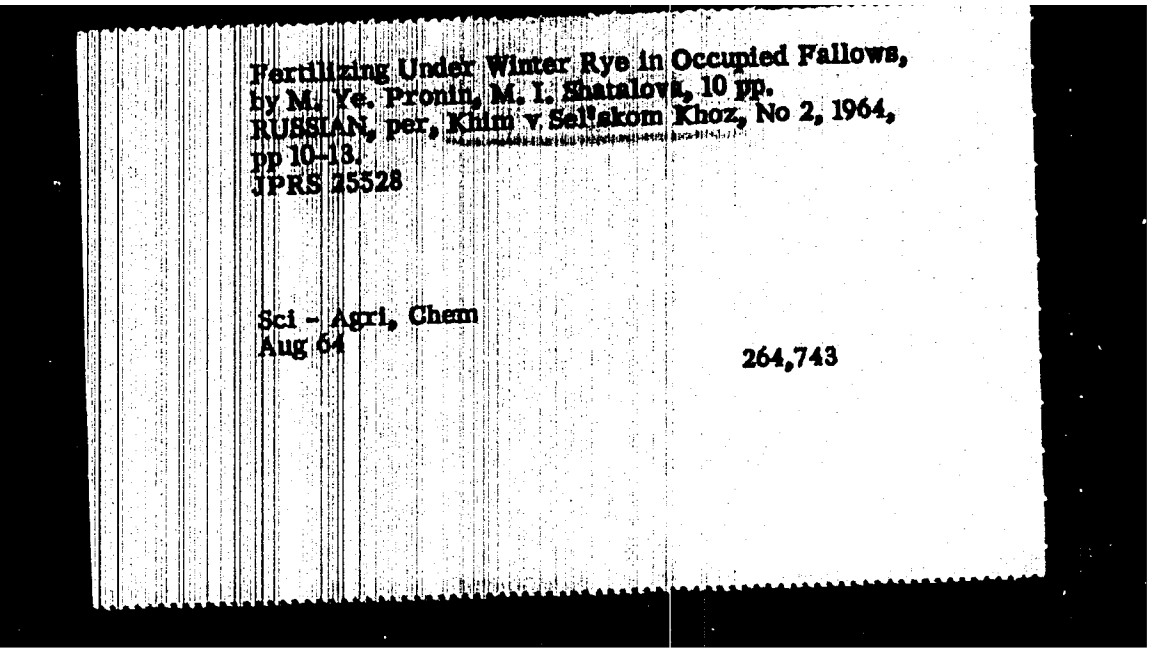

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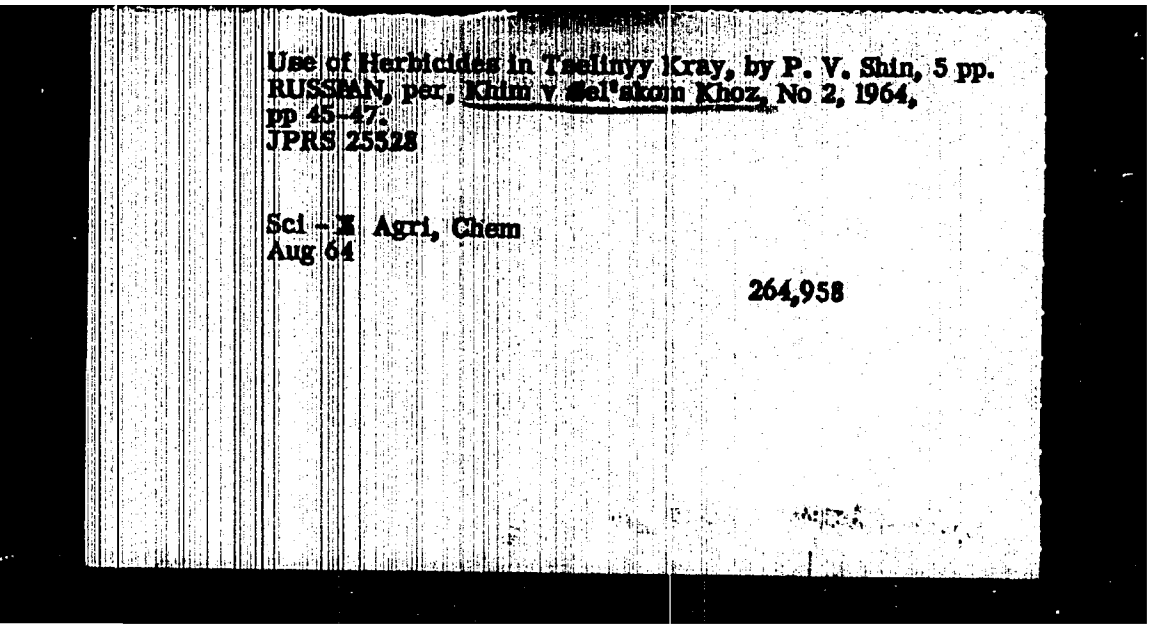

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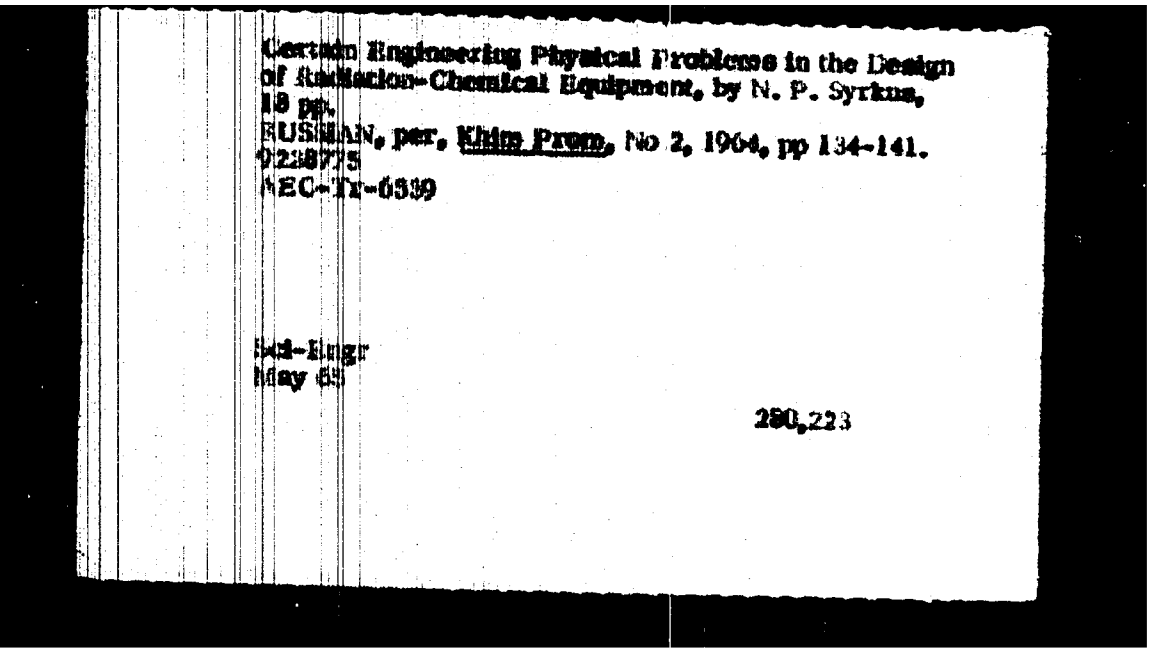

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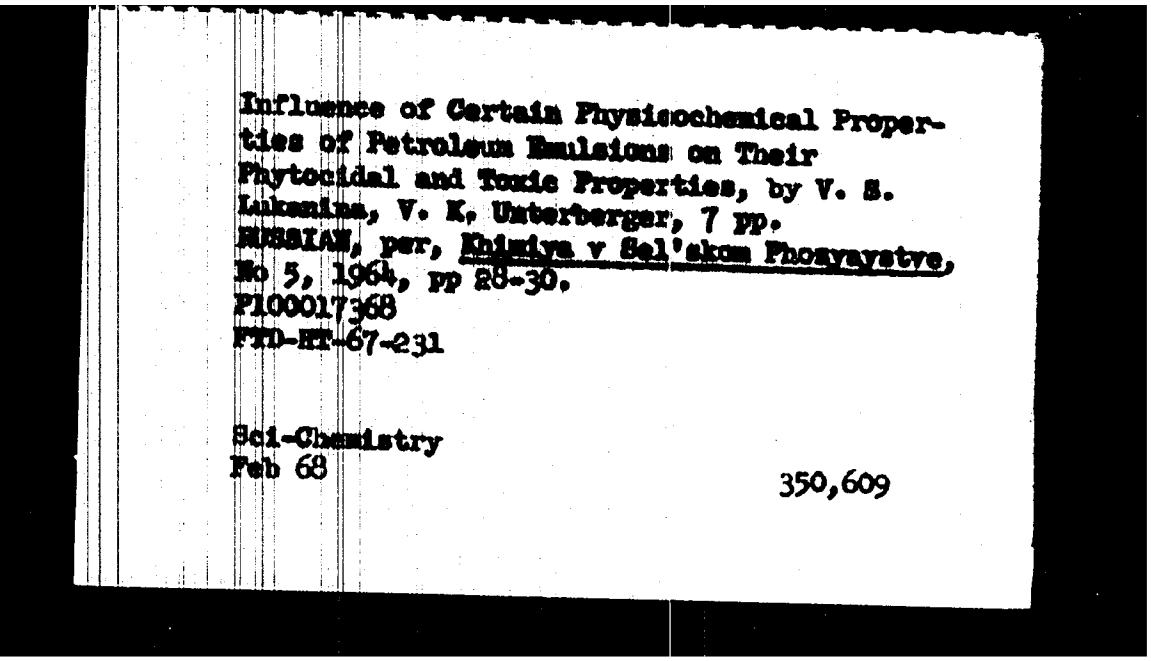

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JPRS 27230

Sel-Chem, Biol
Jan 65

27109/

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130059-7

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Mar 65

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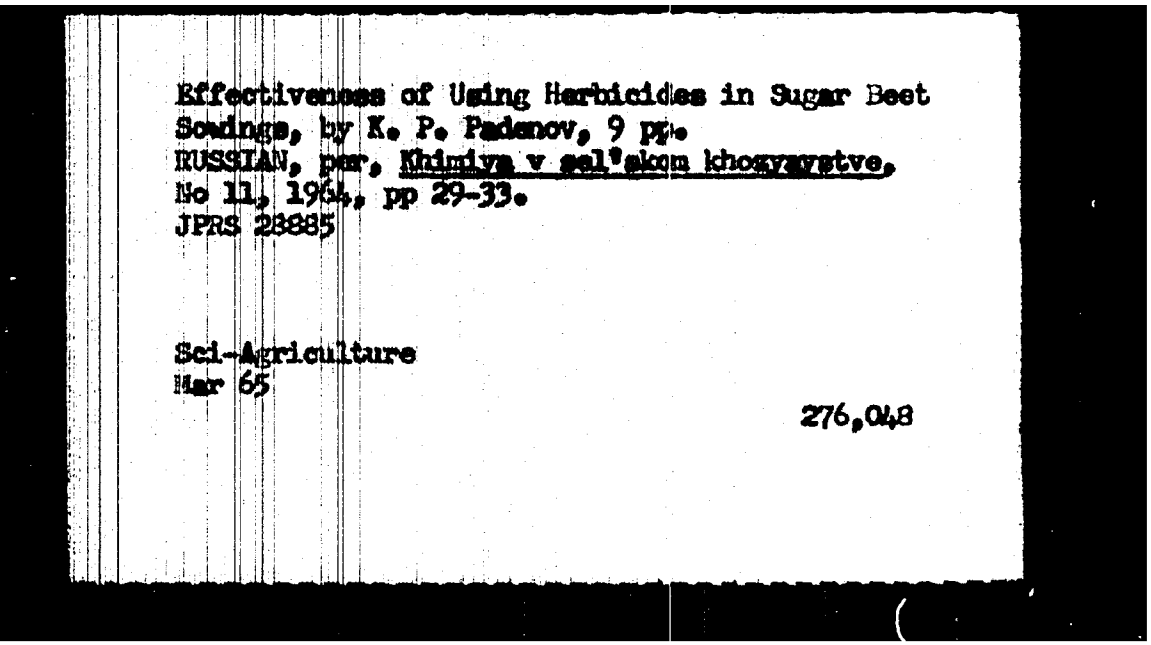

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FTD-TT-62-1451

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The Synthesis of Methane, by I. B. Rapoport, A. P. Blyndov.

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US JPRS/DC-L-260

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S-2209

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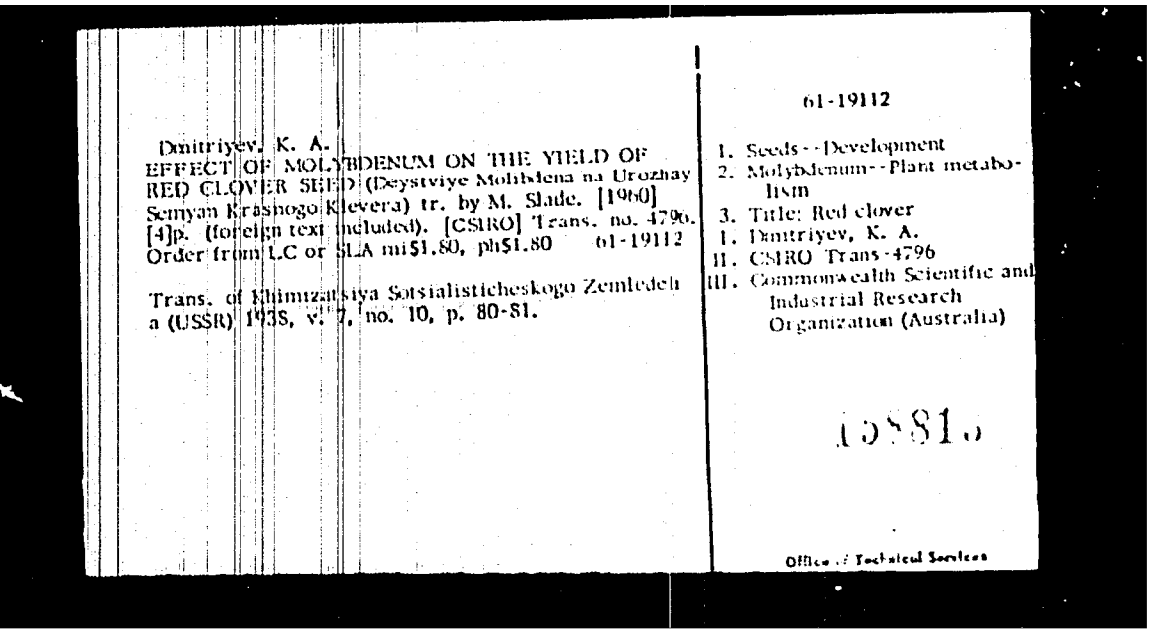

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EFFECT OF MOLYBDENUM ON THE YIELD OF RED CLOVER SEED (Deystviye Molibdena na Urozhay Semyan Krasnogo Klevera) tr. by M. Slade. [1960] [4]p. (foreign text included). [CSIRO] Trans. no. 4796. Order from LC or SLA mi$1.80, ph$1.80 61-19112

Trans. of Khimizatsiya Sotsialisticheskogo Zemledeli a (USSR) 1938, v. 7, no. 10, p. 80-81.

61-19112

1. Seeds--Development
2. Molybdenum--Plant metabolism
3. Title: Red clover
I. Dmitriyev, K. A.
II. CSIRO Trans-4796
III. Commonwealth Scientific and Industrial Research Organization (Australia)

13581.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130059-7

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CSIRO 4797

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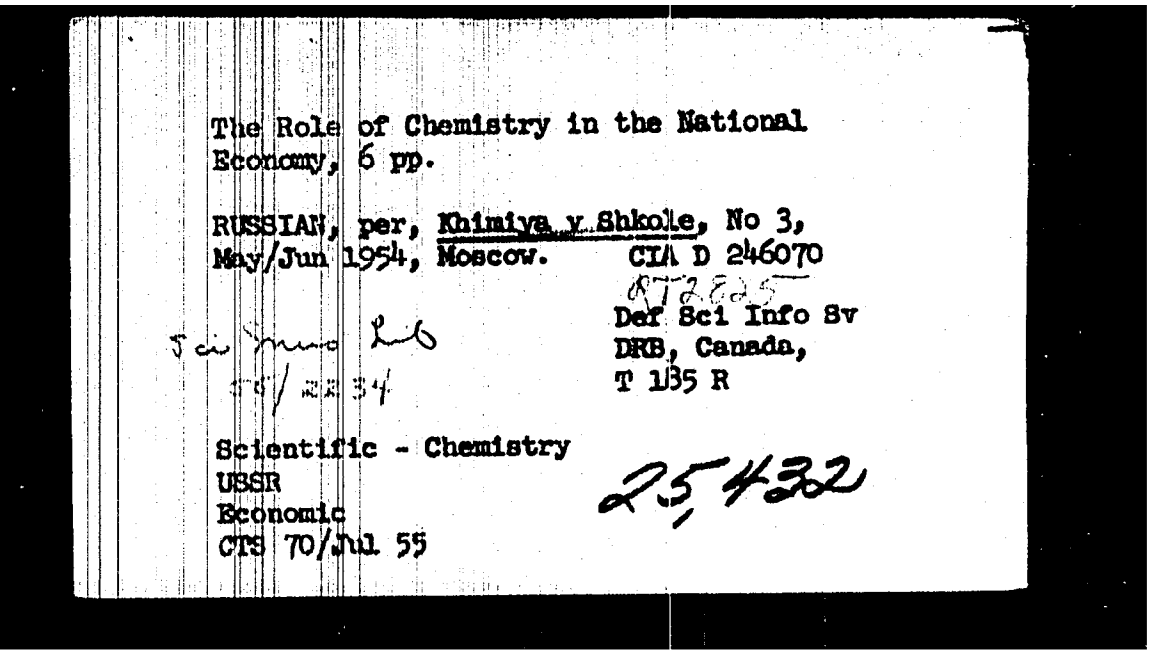

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Scientific - Chemistry
USSR
Economic
CTS 70/Jul 55

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APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130059-7

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THE FORMATION OF A DIALECTIC-MATERIALISTIC WORLD OUTLOOK IN STUDENTS TAKING CHEMISTRY COURSES, BY T. M. PEREPELOVA, 13 PP.

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JPRS 20638

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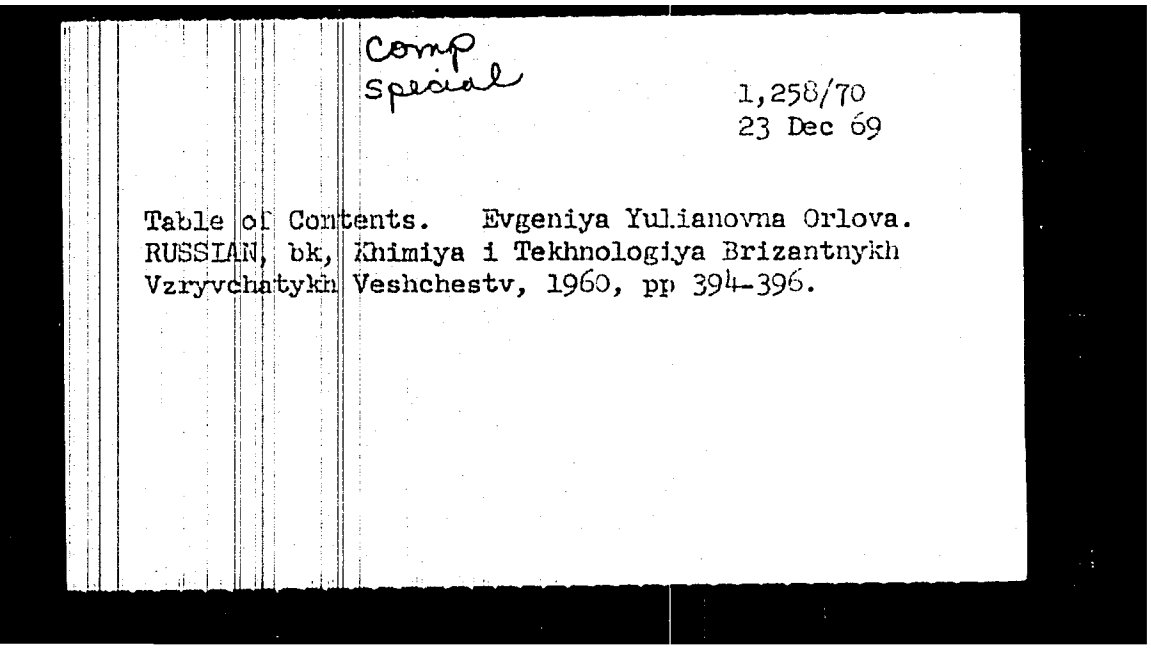

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Special

1,258/70
23 Dec 69

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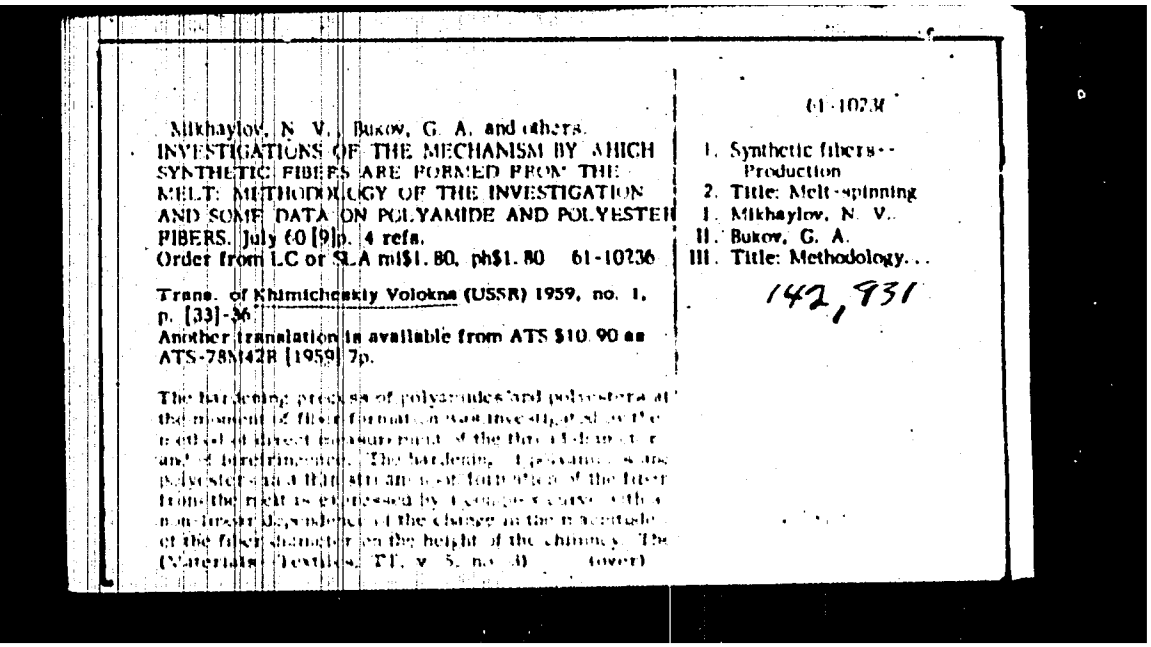

Mikhaylov, N. V., Bukov, G. A. and others.
INVESTIGATIONS OF THE MECHANISM BY WHICH SYNTHETIC FIBERS ARE FORMED FROM THE MELT: METHODOLOGY OF THE INVESTIGATION AND SOME DATA ON POLYAMIDE AND POLYESTER FIBERS. July 60 [9]p. 4 refs.
Order from LC or SLA ml$1.80, ph$1.80 61-10236

Trans. of Khimicheskiy Volokna (USSR) 1959, no. 1, p. [33]-36.
Another translation is available from ATS $10.90 as ATS-78N42R [1959] 7p.

The hardening process of polyamide and polyesters at the moment of fiber formation was investigated in the method of direct measurement of the thickness of the and of hardening. The hardening process in polyamide and polyester and the structure of formation of the fiber from the melt is expressed by a curve with a point of inflection, evidence of the change in the mechanism of the fiber formation on the height of the chimney. The (Materials Textiles, TT, v. 5, no. 4) (over)

61-10236

1. Synthetic fibers--Production
2. Title: Melt-spinning
I. Mikhaylov, N. V.
II. Bukov, G. A.
III. Title: Methodology...

142,931

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130059-7

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absence of linearity in the flow curve of the investigated polymers is related to the structural transformations at the moment of hardening of the polymers within the limits of one and the same phase of the substance. The hardening process of polyamide and polyester fibers during their formation from the melt goes through several stages: distention of the melt stream, zone of hardening of the polymer, distinguished by a linear and a non-linear change in diameter with the [illegible] with a constant cross section. A hypothesis is given concerning the mechanism of polymer hardening during the formation of fibers from the melt. (Author)

61-10236

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APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130059-7

Obtaining a High-Tenacity Viscose Cord, by
A. T. Serkov, A. Konkin.
RUSSIAN, per, Khim Volokna, No 1, 1959,
pp 15-21.
NTC-69-12775-11E

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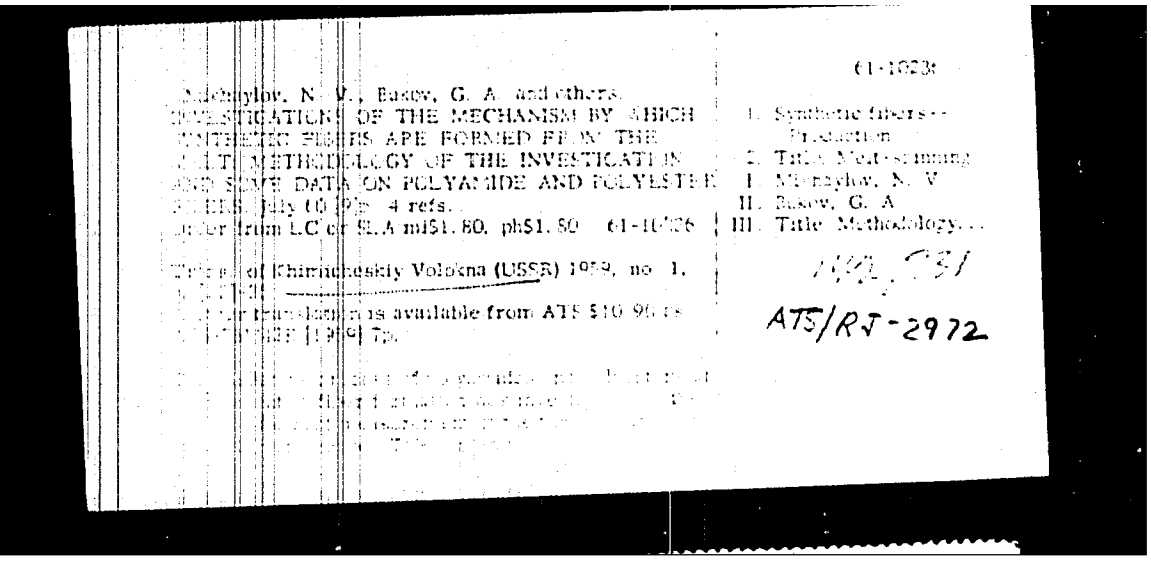

Nadeinylov, N. V., Basov, G. A. and others.
INVESTIGATION OF THE MECHANISM BY WHICH
SYNTHETIC FIBERS ARE FORMED FROM THE
MELT. METHODOLOGY OF THE INVESTIGATION
AND SOME DATA ON POLYAMIDE AND POLYESTER
FIBERS. July 60. [illegible] 4 refs.
Order from LC or SLA mi$1.80, ph$1.80 61-16926

Trudy of Khimicheskiy Volokna (USSR) 1959, no. 1.
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1. Synthetic fibers--
Production
2. Title: Mekhanizm...
I. Nadeinylov, N. V.
II. Basov, G. A.
III. Title: Methodology...

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ATS/RJ-2972

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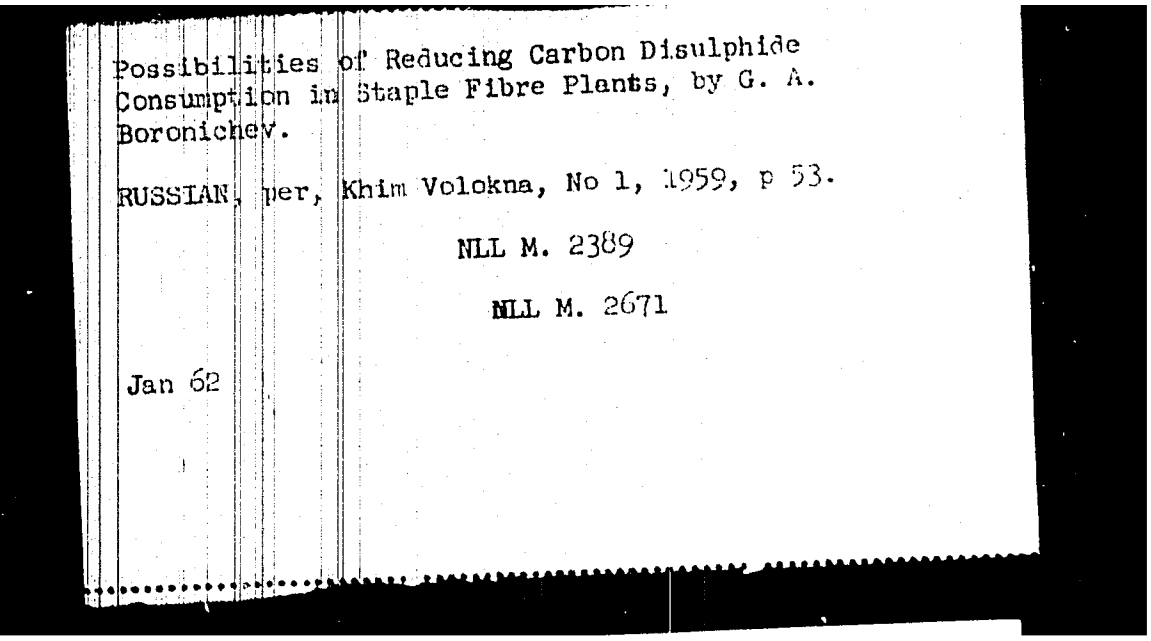

Possibilities of Reducing Carbon Disulphide Consumption in Staple Fibre Plants, by G. A. Boronichev.

RUSSIAN, per, Khim Volokna, No 1, 1959, p 53.

NLL M. 2389

NLL M. 2671

Jan 62

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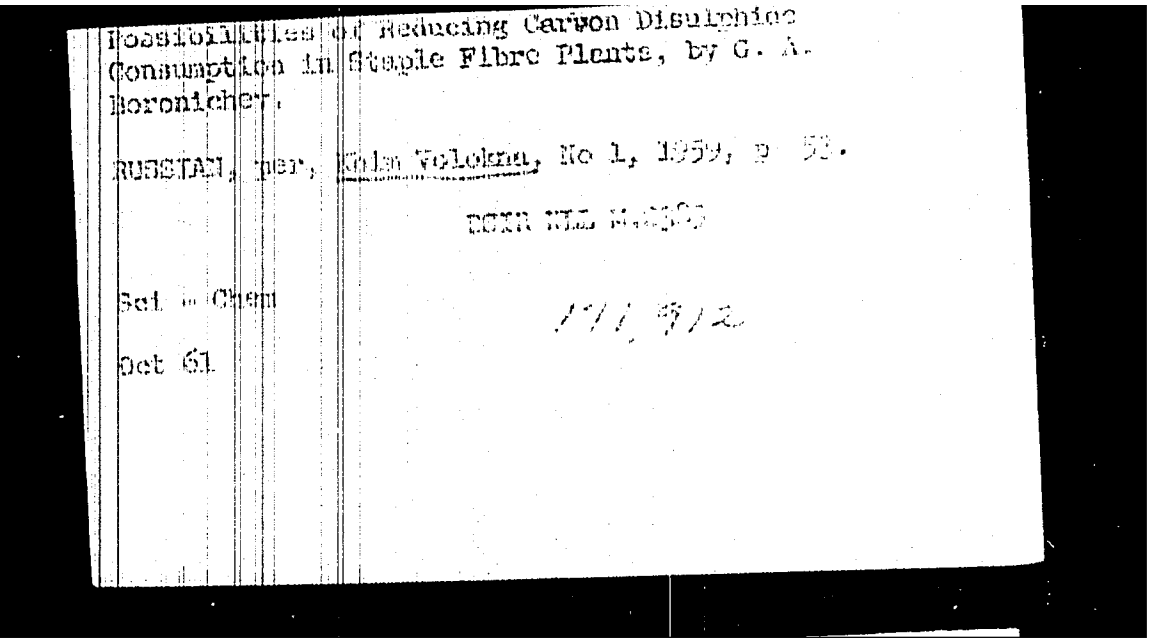

Possibilities of Reducing Carbon Disulphide Consumption in Staple Fibre Plants, by G. A. Noronicher.

RUSSIAN, per, Khim Volokna, No 1, 1959, p 53.

DDIR WLL M.2193

Sci - Chem

Oct 61

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130059-7

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130059-7

Investigation of Concentrated HX Solutions of Polyacrylonitrile in Dimethylformamide, by Ye. A. Pakshver, B. E. Heller, 12 pp.

RUSSIAN, per, Khim Volokna, No 2, 1959, pp 21-24.

SLA 60-18527

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Sci

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APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130059-7

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130059-7

Perepelkin, K. Ye.
KINETICS OF PHASE TRANSITIONS IN THE DISPERSED SYSTEM VISCOSE-AIR (O Kinetike Protsessov Fazovykh Perekhodov v Dispersnoy Sisteme Vozdukh-Viskoza). Communication 7 of Technological Problems in the Preparation of Spinning Solutions for the Formation of Chemical Fibres. Apr 61 [7]p.
24 refs. RTS 1807.
Order from OTS or SLA $1.10 61-19805

Trans. of Khimicheskiy Volokna (USSR) 1959, no. 2, p. 48-50.

DESCRIPTORS: Phase transitions, Reaction kinetics, *Cellulose, Air, *Rayon, Production, Bubbles.

Investigation of the kinetics of phase transitions in the viscose-air dispersed system and determinations of the coefficients of mass transfer at different temperatures have been carried out. It is shown that the radius-time relation for growing (dissolving) air bubbles in viscose (Materials--Textiles, TT, v. 6, no. 5) (over)

61-19805

I. Perepelkin, K. Ye.
II. Title: Technological...
III. RTS-1807
IV. Department of Scientific and Industrial Research (Gt. Brit.)

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Office of Technical Services

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130059-7

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130059-7

Kinetics of Phase Transitions in the Dispersed System Viscose-Air, by K. E. Perepelkin.

RUSSIAN, per, Khim Volokna, No 2, 1959, pp 48-50.

NLL RTS 1807

Sci - Chem

Jan 62

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APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130059-7

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Investigation of Concentrated Solutions of Polyacrylonitrile in Dimethyl Formamide, by E. A. Pakshver, et al.

RUSSIAN, per, Khim Volokna, No 2, 1959, pp 21-24.

DSIR LLU M.1820
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Sci - Chem

Oct 60

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APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130059-7

Investigation of Concentrated Solutions of Polyacrylonitrile in Dimethylformammitide, by Ye. A. Pakshver, B. E. Heller, 12 pp.

RUSSIAN, per, Khim Volokna, No 2, 1959, pp 21-24.

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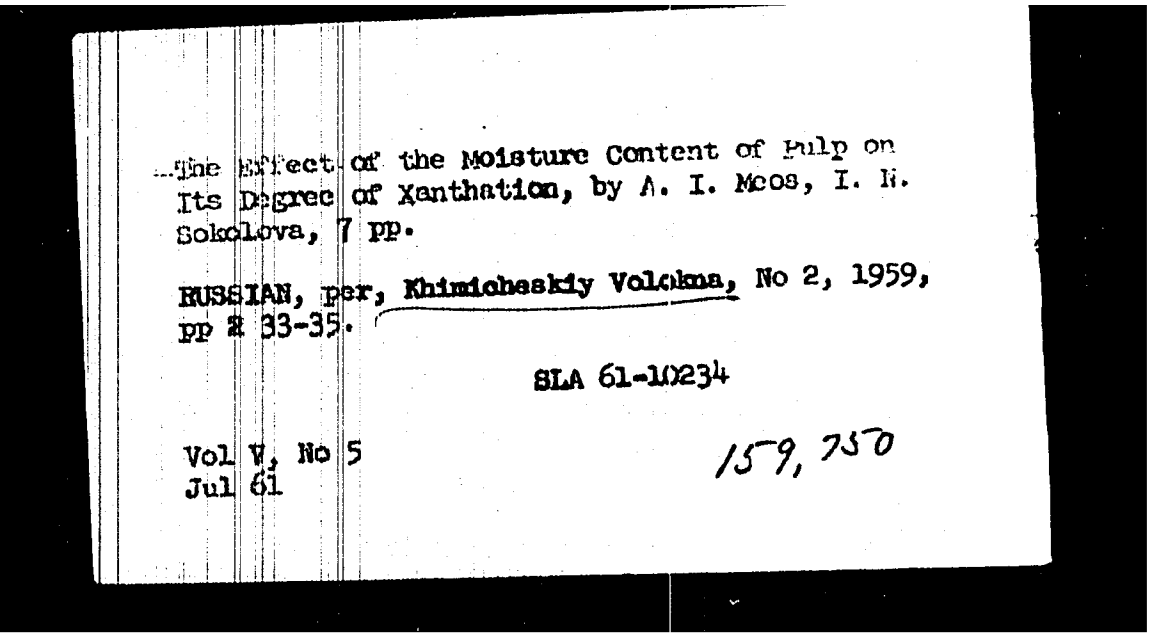


...The Effect of the Moisture Content of Pulp on Its Degree of Xanthation, by A. I. Meos, I. N. Sokolova, 7 pp.

RUSSIAN, per, Khimicheskiy Volokna, No 2, 1959, pp 2 33-35.

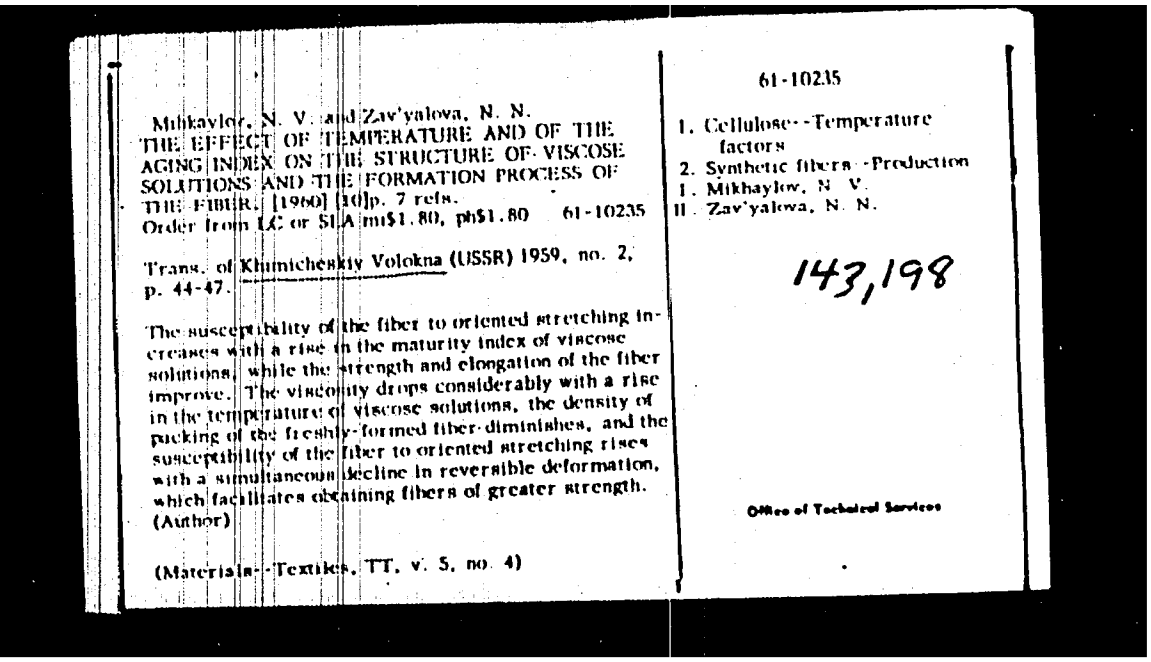
SLA 61-10234

Vol V, No 5
Jul 61

159, 750

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130059-7

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130059-7



Mikhaylov, N. V. and Zav'yalova, N. N.
THE EFFECT OF TEMPERATURE AND OF THE AGING INDEX ON THE STRUCTURE OF VISCOSE SOLUTIONS AND THE FORMATION PROCESS OF THE FIBER. [1960] [10]p. 7 refs.
Order from LC or SLA mi$1.80, ph$1.80 61-10235

Trans. of Khimicheskiy Volokna (USSR) 1959, no. 2, p. 44-47.

The susceptibility of the fiber to oriented stretching increases with a rise in the maturity index of viscose solutions, while the strength and elongation of the fiber improve. The viscosity drops considerably with a rise in the temperature of viscose solutions, the density of packing of the freshly-formed fiber diminishes, and the susceptibility of the fiber to oriented stretching rises with a simultaneous decline in reversible deformation, which facilitates obtaining fibers of greater strength. (Author)

(Materials--Textiles, TT, v. 5, no. 4)

61-10235

1. Cellulose--Temperature factors
2. Synthetic fibers--Production
I. Mikhaylov, N. V.
II. Zav'yalova, N. N.

143,198

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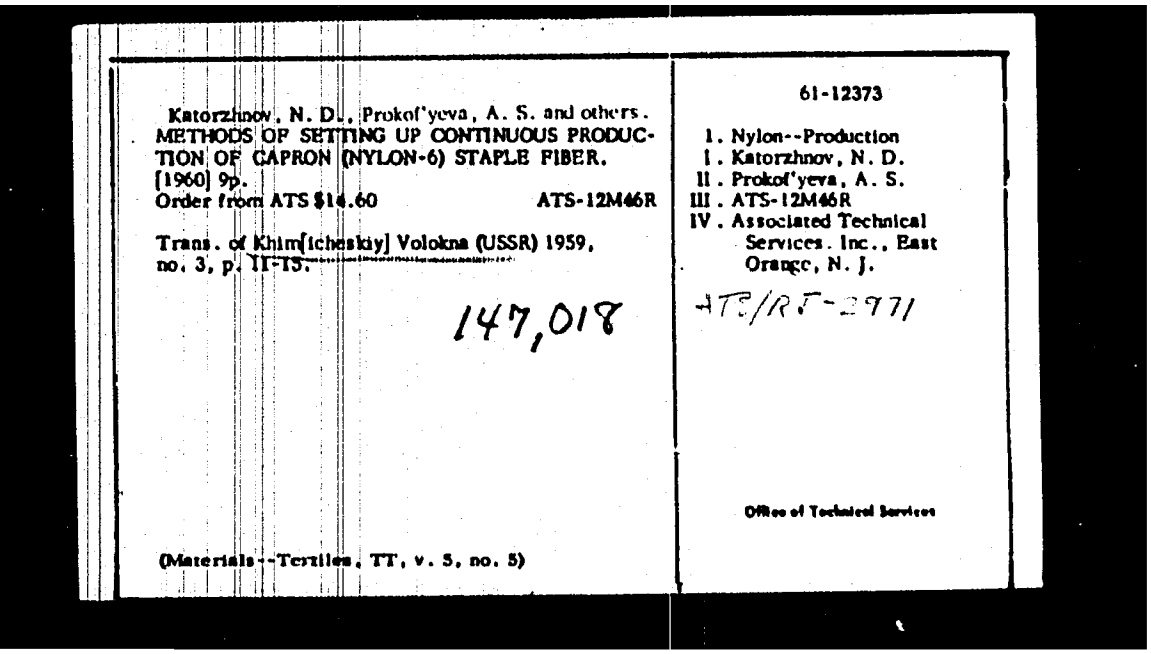

Katorzhnov, N. D., Prokof'yeva, A. S. and others.
METHODS OF SETTING UP CONTINUOUS PRODUCTION OF CAPRON (NYLON-6) STAPLE FIBER.
[1960] 9p.
Order from ATS $1.60 ATS-12M46R

Trans. of Khim[icheskiy] Volokna (USSR) 1959, no. 3, p. 11-15.

147,018

(Materials--Textiles, TT, v. 5, no. 5)

61-12373

1. Nylon--Production
I. Katorzhnov, N. D.
II. Prokof'yeva, A. S.
III. ATS-12M46R
IV. Associated Technical Services, Inc., East Orange, N. J.

ATS/RT-2971

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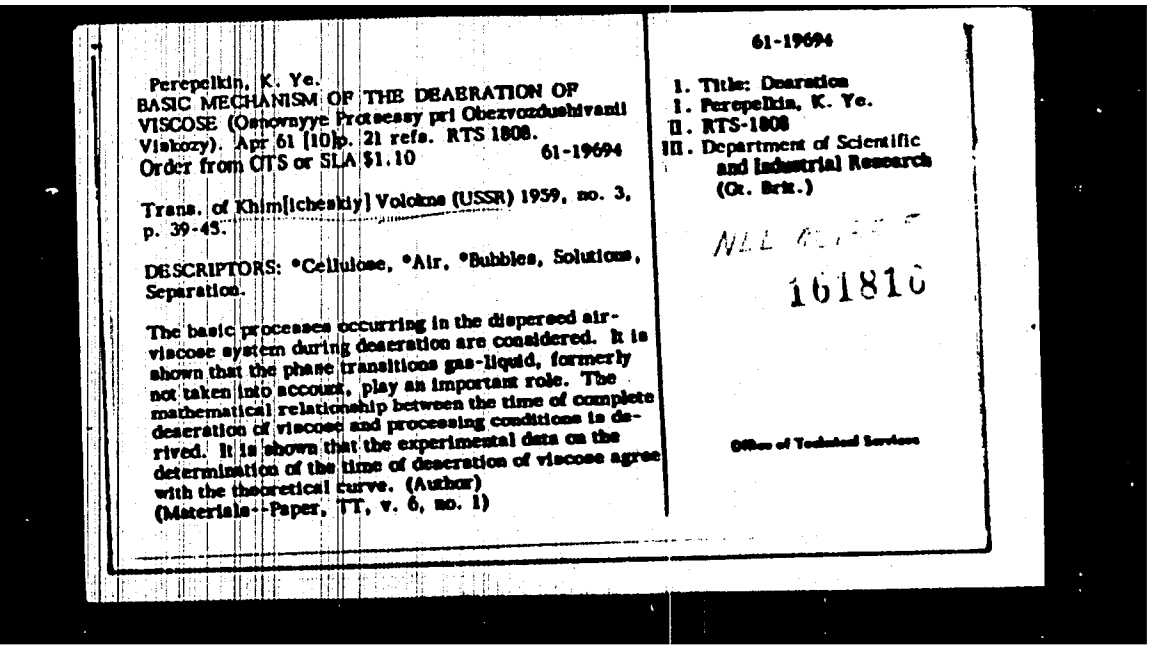

Perepelkin, K. Ye.
BASIC MECHANISM OF THE DEAERATION OF VISCOSE (Osnovnyye Protsessy pri Obezvozdushivanii Viskozy). Apr 61 [10]p. 21 refs. RTS 1808.
Order from CTS or SLA $1.10 61-19694

Trans. of Khim[icheskiy] Volokna (USSR) 1959, no. 3, p. 39-45.

DESCRIPTORS: *Cellulose, *Air, *Bubbles, Solutions, Separation.

The basic processes occurring in the dispersed air-viscose system during deaeration are considered. It is shown that the phase transitions gas-liquid, formerly not taken into account, play an important role. The mathematical relationship between the time of complete deaeration of viscose and processing conditions is derived. It is shown that the experimental data on the determination of the time of deaeration of viscose agree with the theoretical curve. (Author)
(Materials--Paper, TT, v. 6, no. 1)

61-19694

1. Title: Deaeration
I. Perepelkin, K. Ye.
II. RTS-1808
III. Department of Scientific and Industrial Research (Gt. Brit.)

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Archangelskii, D. N., Rogovin, Z. A., and Konkin, A. A.
EFFECT OF CONCENTRATION AND NATURE OF ACIDS AND SULFATES USED ON THE SAPONIFICATION RATE OF CELLULOSE XANTHATE. Communication 1 of Investigations on the Process of Viscose Fiber Formation. [1961] [12]p. 12 refs. Order from OTS or SLA $1.60 61-18828

Trans. of Khim[icheskie] Volokna (USSR) 1959, no. 4, p. 23-26.

DESCRIPTORS: *Cellulose, *Xanthic acids, Hydrolysis, Sulfuric acid, Hydrochloric acid, Phosphoric acid, Acids, Sulfates, Chemical reactions, Precipitation.

A method has been developed for determining the effect of the components in the precipitating bath on the saponification rate of cellulose xanthate. The rate of (Chemistry--Physical, TT, v. 7, no. 2) (over)

61-18828

I. Archangelskii, D. N.
II. Rogovin, Z. A.
III. Konkin, A. A.
IV. Title: Investigations...

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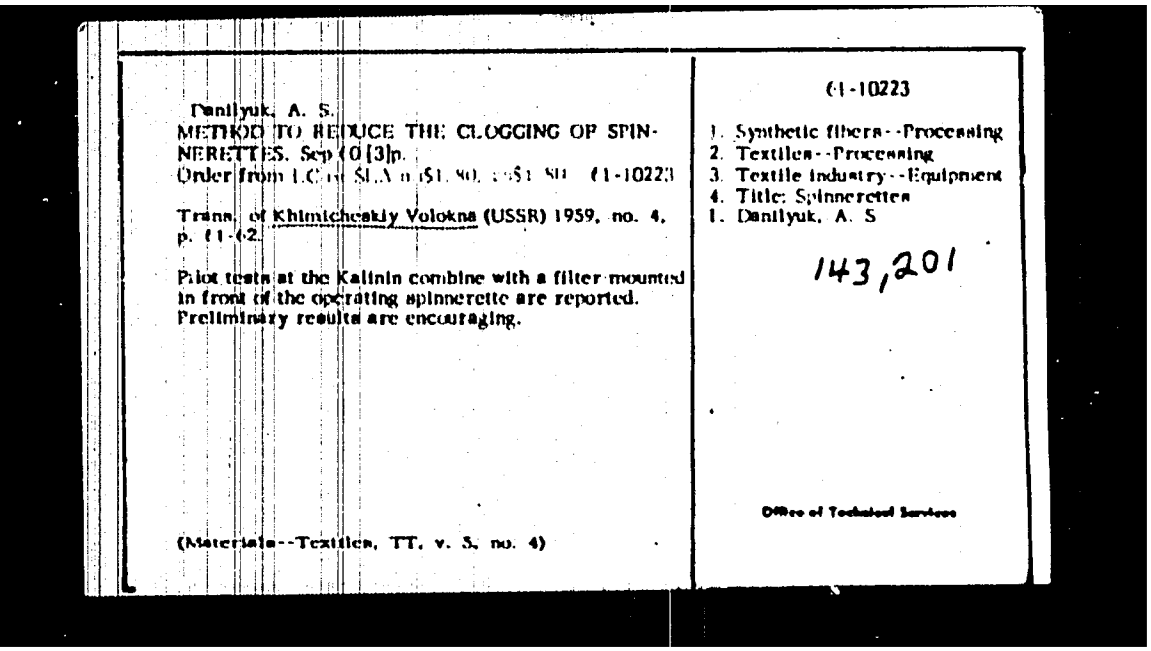

Danilyuk, A. S.
METHOD TO REDUCE THE CLOGGING OF SPINNERETTES. Sep (0 [3]p.
Order from [illegible] (1-10223

Trans. of Khimicheskiy Volokna (USSR) 1959, no. 4, p. 61-62.

Pilot tests at the Kalinin combine with a filter mounted in front of the operating spinnerette are reported. Preliminary results are encouraging.

(Materials--Textiles, TT, v. 5, no. 4)

61-10223

1. Synthetic fibers--Processing
2. Textiles--Processing
3. Textile industry--Equipment
4. Title: Spinnerettes
I. Danilyuk, A. S

143,201

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Method for Determining the Completed Dissolution of Cellulose in the VA Apparatus, by B. T. Abovskiy, etal.

RUSSIAN, per, Khim Volokna, No 4, 1959, pp 62-64.

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186,901

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130059-7

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130059-7

Rozenberg, A. Ya. and Vlasova, G. N.
DETERMINATION OF SULPHATE IONS BY DIRECT TITRATION WITH ALIZARINE S (Opredelenie Sulfat-ionov Metodom Pryamogo Titrovaniya s Indikatorom Alizarinom-S). July 61 [5]p. 2 refs. RTS 1877.
Order from OTS or SLA $1.10 61-23667

Trans. of Khimicheskie Volokna (USSR) 1959, no. 4, p. 67-68.

DESCRIPTORS: *Sulfates, Ions, Determination, Cellulose, Titration.

A volumetric procedure was devised for determination of sulphates in the spinning bath and effluent liquor, and for use during complete analysis of the spinning cake. The method makes possible the determination of sulphates with an error not more that 1 or 2%. (Author)

SLA TT-65-10069
SLA-TT-61-23667
(Chemistry--Analytical, TT, v. 6, no. 5)

61-23667

I. Rozenberg, A. Ya.
II. Vlasova, G. N.
III. RTS-1877
IV. Department of Scientific and Industrial Research (Gt. Brit.)

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Determining the Molecular Weight of Polyethyleneterephthalate From the Terminal Radicals, by S. P. Matveyeva, V. A. Myagkov, 8 pp.

RUSSIAN, per, Khimicheskiye Volokna, No 5, pp 18-21, 1959. 9217320

NASA TT F-191

Sci -Chem
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Feb 64

248, 430

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130059-7

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130059-7

Geller, A. A. and Pakshver, A. B.
INVESTIGATION OF A PROCESS OF DYEING OF A POLYACRYLONITRILE FIBER, COMMUNICATION 1. [1961] 7p. 8 refs.
Order from OTS or SLA $1.10 61-20709

Trans. of Khimicheskie Volokna (USSR) 1959, no. 6, p. 15-17.
Another trans. is available from ATS $9.00 as ATS-89M46R [1960] 5p.

DESCRIPTORS: *Synthetic fibers, Colors, *Dyes, Effectiveness, Textiles, *Acrylonitriles, *Polymers, Processing, Fibers.

It is shown that upon formation, stretching, finishing and drying of the fiber a marked tightening of the structure occurs which is expressed in the sharp decrease of the diffusion coefficient of dyes within the
(Materials--Textiles, TT, v. 7, no. 7) (over)

61-20709

I. Geller, A. A.
II. Pakshver, A. B.

ATS/RS-2974

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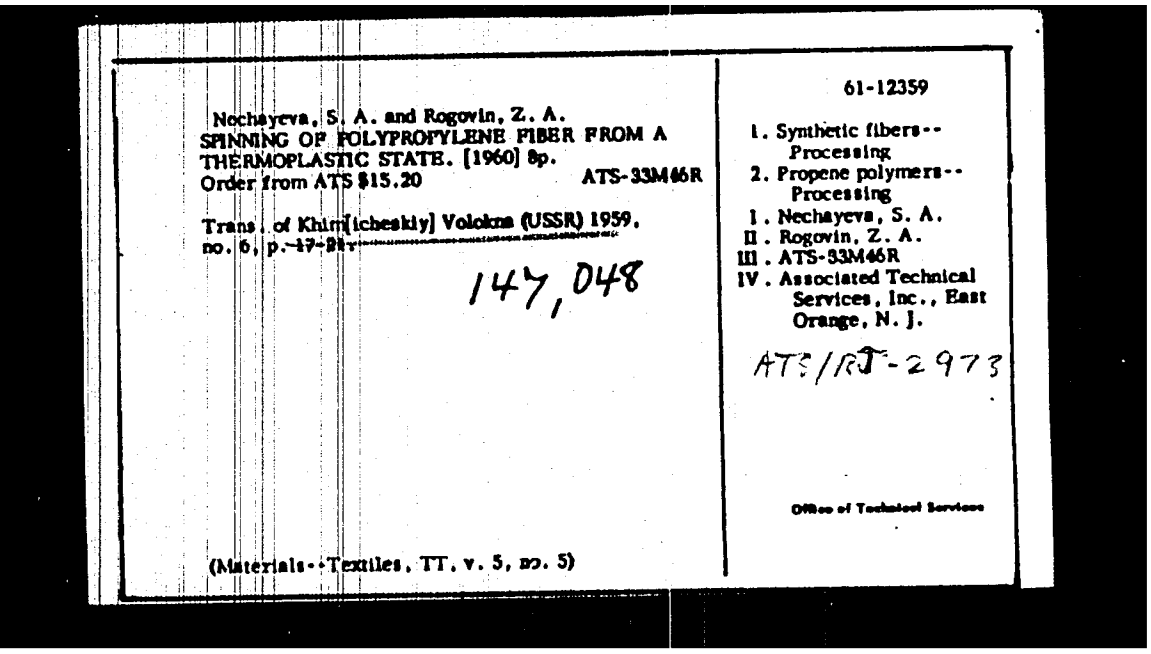

Nechayeva, S. A. and Rogovin, Z. A.
SPINNING OF POLYPROPYLENE FIBER FROM A THERMOPLASTIC STATE. [1960] 8p.
Order from ATS $15.20 ATS-33M46R

Trans. of Khim[icheskiy] Volokna (USSR) 1959. no. 6, p. 17-21

147,048

(Materials--Textiles, TT, v. 5, no. 5)

61-12359

1. Synthetic fibers--Processing
2. Propene polymers--Processing
I. Nechayeva, S. A.
II. Rogovin, Z. A.
III. ATS-33M46R
IV. Associated Technical Services, Inc., East Orange, N. J.

ATS/RJ-2973

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Virezub, A. I., Ginzberg, M. A. and others.
DEVELOPMENT OF A CONTINUOUS METHOD FOR DEAERATING VISCOSE SOLUTIONS. [1960] 5p.
Order from ATS $9.80 ATS-87M46R

Trans. of Khim[icheskiy] Volokna (USSR) 1959, no. 6, p. 31-33.

15153

(Materials--Wood. TT, v. 5, no. 8)

61-12754

1. Cellulose--Processing
I. Virezub, A. I.
II. Ginzberg, M. A.
III. ATS-87M46R
IV. Associated Technical Services, Inc., East Orange, N. J.

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